Contents

NUMBER 1, JANUARY 1991

1 *S. Karlsson, M. Persson and G. E. Carlsson*: Mandibular movement and velocity in relation to state of dentition and age

9 *C. J. Arcoria, M. A. Fisher and M. J. Wagner*: Microleakage in alloy-glass ionomer lined restorations after thermocycling

15 *L. V. Christensen, A. B. Carr, S. J. Donegan and G. J. Ziebert*: Observations on the motor control of brief teeth clenching in man

31 *S. E. Taggart and G. J. Pearson*: The effect of etching on glass polyalkenoate cements

43 *A. W. G. Walls, R. W. Wassell and J. G. Steele*: A comparison of two methods for locating the intercuspal position (ICP) whilst mounting casts on an articulator

49 *A. I. Gianniri, B. Melsen, L. Nielsen and A. E. Athanasiou*: Occlusal contacts in maximum intercuspation and craniomandibular dysfunction in 16- to 17-year-old adolescents

61 *E. S. Akpata and P. J. Winter*: Replication of human occlusal tooth attrition surfaces for scanning electron microscopic study

69 *T. Nagasawa, Y. Yuasa, H. Tamura and H. Tsuru*: Mandibular reaction time to auditory and visual signals in young and elderly subjects

75 *Y. Akiyama, M. Shikimori, A. Satou and K. Motegi*: The effect of a change in dietary habit upon maze learning ability in rats

81 *R. G. Jagger*: Reflected light microscopy of the human mandibular condyle — a study of a post-mortem material

87 *C. E. Gomez and L. V. Christensen*: Stimulus-response latencies of two instruments delivering transcutaneous electrical neuromuscular stimulation (TENS)

95 *Z. Yusof*: Proximal tooth surface quality and periodontal status

103 Announcement

NUMBER 2, MARCH 1991

105 *M. J. Tyas*: Dental materials science — the maintenance of standards

111 *F. A. Rohrer, S. Palla and W. Engelke*: Condylar movements in clicking joints before and after arthrography

125 *T. Bjørnland, P. Brodin and H. Aars*: Force-related changes in the masseter muscle reflex response to tooth-taps in man

133 *T. M. Gerzina and G. Wing:* Dental amalgams subjected to sub-fracture stresses at 37°C

143 *A. B. Carr, S. J. Donegan, L. V. Christensen and G. J. Ziebert*: An electrognathographic study of aspects of 'deprogramming' of human jaw muscles

149 *M. Gordon, A. Wasserstein, C. Gorfil and S. Imber*: Microleakage in three designs of glass ionomer under composite resin restorations

155 *J. C. L. Jensen, P. Brodin and J. Ørstavik*: Parotid salivary flow rates in two patients during immediate denture treatment

163 *J. A. Williams and R. W. Billington*: Changes in compressive strength of glass ionomer restorative materials with respect to time periods of 24 h to 4 months

169 *K. Watanabe, K. Shimizu, S. Nakata and M. Watanabe*: The relationship between the isotonic mechanical power in jaw-opening and jaw-closing muscles in man

179 *G. Soh, C. L. Chew, A. S. Lee and T. S. Yeoh*: Thermal effect on the dissolution of mercury from two dental amalgams

185 *A. B. Carr, L. V. Christensen, S. J. Donegan and G. J. Ziebert*: Postural contractile activities of human jaw muscles following use of an occlusal splint

193 *K. Tamari, K. Shimizu, T. Murakami, Y. Takahama and S. Yokota*: Management and subsequent 13-year progress of a mandibular fracture with malocclusion in a child — case report

NUMBER 3, MAY 1991

203 *D. J. Witter, A. F. J. De Haan, A. F. Käyser and G. M. J. M. Van Rossum*: Shortened dental arches and periodontal support

213 *M. Lekka, L. Papagiannoulis and G. Eliades*: Porosity of pit and fissure sealants

221 *B. Bonte and D. van Steenberghe*: Masseteric post-stimulus EMG complex following mechanical stimulation of osseointegrated oral implants

231 *M. D. F. Mercado and K. D. B. Faulkner*: The prevalence of craniomandibular disorders in completely endentulous denture-wearing subjects

243 *K. D. B. Faulkner and M. D. F. Mercado*: Aetiological factors of craniomandibular disorders in completely edentulous denture-wearing patients

253 *Shi Chong-Shan and Wang Hui Yun*: Influence of an occlusal splint on integrated electromyography of the masseter muscles

257 *I. Eli, E. Weiss, A. Kozlovsky and N. Levi*: Wedges in restorative dentistry: principles and applications

265 *Y. Munakata, M. Tsuji and S. Kasai*: Occlusal force pattern during rhythmic human tapping movement

273 *Shi Chong-Shan, Ouyang Guan and Guo Tian-Wen*: Power spectral analysis of occlusal sounds of natural dentition subjects

279 Book reviews

283 Forthcoming events

NUMBER 4, JULY 1991

285 *A. Tallgren and G. Tryde*: Chewing and swallowing activity of masticatory muscles in patients with a complete upper and a partial lower denture

301 *H. Schroeder, H. Siegmund, G. Santibáñez-H and A. Kluge*: Causes and signs of temporomandibular joint pain and dysfunction: an electromyographical investigation

311 *F. Ran, I. Gedalia, M. Fried, P. Hadant and A. Tved*: Effectiveness of fortnightly tooth brushing with amine fluorides in caries-prone subjects

317 *C. Alexandridis, A. A. Caputo and G. C. Eliades*: Functional stress modification after high condylectomy surgery

327 *P. Brodin, F. Fløystrand and J. Ørstavik*: The masseteric reflex evoked by tooth and denture tapping

337 *T. M. Gerzina and G. Wing*: Comparison of amalgam behaviour under static and cyclic sub-modulus of rupture loading

343 *A. Yaffe, M. Tal and J. Ehrlich*: Effect of occlusal bite-raising splint on electromyogram, motor unit histochemistry and myoneuronal dimensions in rats

353 *K. Tanaka, M. Taira, H. Shintant, K. Wakasa and M. Yamaki*: Residual monomers (TEGDMA Bis-GMA) of a set visible-light-cured dental composite resin when immersed in water

363 *L. Guo-Hau and M. Morimoto*: Magnesium sulphate as a new desensitizing agent

NUMBER 5, SEPTEMBER 1991

373 *T. Kampe, G. Edman and H. Hannerz*: Five-year follow-up study of adolescents with intact and restored dentitions: personality traits

387 *T. Kampe and H. Hannerz*: Five-year longitudinal study of adolescents with intact and restored dentitions: signs and symptoms of temporomandibular dysfunction and functional recordings

399 *B. Kalipçilar, L. Karaağaçlioğlu and U. Hasanreisoğlu*: Evaluation of the level of residual monomer in acrylic denture base materials having different polymerization properties

403 *S. E. Widmalm, W. J. Williams and C. Zheng*: Time frequency distributions of TMJ sounds

413 *F. Mowlana and M. R. Heath*: Swallow thresholds using dentures made on different types of articulator

421 *J. Satou, A. Fukunaga, A. Morikawa, I. Matsumae, N. Satou and H. Shintani*: Streptococcal adherence to uncoated and saliva-coated restoratives

431 *S. Yamashita, M. Ai and H. Mizutani*: Tooth contact patterns in patients with temporomandibular dysfunction

439 *E. Schepers, M. de Clercq, P. Ducheyne and R. Kempeneers*: Bioactive glass particulate material as a filler for bone lesions

453 *J. G. Steele, P. L. Lamey, S. W. Sharkey and G. McR. Smith*: Occlusal abnormalities, pericranial muscle and joint tenderness and tooth wear in a group of migraine patients

459 *B. Haller, W. Götze and G. Weiss*: Parapulpal pins and their effects on the fracture resistance of pin-retained cores

471 *K. Ogata and K. Shimizu*: Longitudinal study on forces transmitted from denture base to retainers of lower free-end saddle dentures with Akers' clasps

481 Book reviews

NUMBER 6, NOVEMBER 1991

483 *E. Yontchev, S. Karlsson, A. Lith, S. A. Ålmqvist, P. Lindblad and B. Engström*: Orofacial functions in patients with congenital acquired maxillary defects: a fluoroscopic study

491 *L. V. Foster*: The relationship between bridge failure and design in conventional bridgework from general dental practice

497 *R. G. Jagger*: Mandibular manipulation of anterior disc displacement without reduction

501 *I. Gedalia, D. Ionat-Bendat, S. Ben-Mosheh and L. Shapira*: Tooth enamel softening with a cola type drink and rehardening with hard cheese or stimulated saliva *in situ*

507 *Y. Okamoto, J. D. Heeley, I. L. Dogon and H. Shintani*: Effects of phosphoric acid and tannic acid on dentine collagen

513 *V. F. Ferrario, C. Sforza, A. D'Addona and A. Miani Jr*: Reproducibility of electromyographic measures: a statistical analysis

523 *O. Barwart, I. Moschen, A. Graber and K. Pfaller*: *In-vitro* study to compare the efficacy of N-monochloro-D,L-2-aminobutyrate (NMAB, GK-101E) and water in caries removal

531 *S. J. Chaconas and F. D. Fragiskos*: Orthognathic diagnosis and treatment planning: a cephalometric approach

547 *G. Soh and Y. H. Chong*: Defects in automixed addition silicone elastomers prepared by putty-wash impression technique

555 *L. V. Christensen and K. K. Kundinger*: Activity index and isometric contraction velocity of human jaw muscles

563 *Y. Ito, L. M. Rucker, K. Hashimoto and S. Takehana*: Palpation as a method for evaluating occlusal discrepancies

569 *M. C. Mazengo and P. Kirveskari*: Prevalence of craniomandibular disorders in adults of Ilala District, Dar-es-Salaam, Tanzania

575 Index to Volume 18